Receiving Report

i∍ _I ∌ Da'	te: <u>////o/2</u> 4_		Batch	No: <u>M/</u>	18346	•
Su	pplier: 1/1/50	Yen H	Dart F	P/O:/	15203	
Packing Slip: Invoice: Receipt:	Yes No No Cr	W Sh Qu	elease Note A aybill Attache hipment Comp C6 Inspection fork Order	d: Ye olete: Ye	s No	V
Discrepancies Part	Description	Quantity	Quantity	Quantity Returned	Quantity Short	Comments
Number	Description	Ordered	Received	Returned	Onor	
:		Initial	s of receiver	(if shipment	OK) Level	12
Production/Ad Date Received/Co Initial	111/2/25				Locat	ion

Page 1 of 2

Monday, October 24, 2011 7:33:56 AM

All Vendors PO ID PO15203 Receipt Dates from 10/24/2011 to 10/24/2011 All Line Item Types All Item ID/GL/WOs All Rec. Employees All Currencies Grouped by Vendor ID

Reference/ Description/ Cert Std PO U/M/ Procedured Date Date Description/ Processing Core Std Required Date Recy Date Date Date Date Date Date Date Date	Reference/ Description/ Description PO U/M/ Stock U/M Required Date Required Date Pour Date Pour Date Description/ Required Qty Pour Date Pro U/M) Recv Pour Date Pour Date Pour Date Pro U/M) Recv Pour Pour Date Pour Date Pro U/M) Recv Pour Pour Date Pro U/M) Inspected Rejected Pour Pour Date Pro U/M) Recv Palue Rejected Pour Pro U/M) Recv Palue Rejected P	ne ne or sp	No.		No A	5	No	6	No		7	, No
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Recv Qty (PO U/M) 108.0000 48.0000 192.0000 320.0000 12.0000	Recy Cost Per Ofty Recy (PO U/M) 108.0000 48.0000 192.0000 320.0000 12.0000 12.0000	Req	10/21/2011 10/24/2011 48.0000 DESJ02 10/21/2011 10/24/2011	192.0000 DESJ02	10/21/2011 10/24/2011 320.0000 DESJ02	10/21/2011 10/24/2011		10/21/2011 10/24/201		10/21/2011 10/24/201		
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ed Oty/ MRB Oty/ ted Oty/ MRB Reject O U/M) Oty 0.00000 0 0.00000 0 0.00000 0 0.00000 0 0.00000 0 0.00000 0 0.00000 0 0.00000 0 0.00000 0 0.00000 0		Book Amt \$416.88	937.95 938.92 (° L	57-21.bb	\$47.76			\$173.80	335.17	\$3,47.93	₩.	*

0.0000	Quantity:	Total Balance Due Quantity:							
801.0000 0.0000 0.0000 \$3,319.69	Quantity: PO U/M): Quantity: pt Value:	Total Received Quantity: Total Qty to Inspect (PO U/M): Total Reject Quantity: Total Receipt Value:	Tota				119346		
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	0	0.0000	\$25.00		12.0000 DESJ02	750 6061-T6 Bar .750 x f .750	750 6061-T6 .750	o N	CAD
\$25.00	0	0.0000	\$2.08	12.0000	10/21/2011 10/24/2011	OP001 Thyssenkrupp Materials CA Ltd M6061T6B0.750X00. f	VC-C	endor Nam	VendorID\Vendor Name
Book Amt	MRB Qty/ MRB Reject Qty	Inspected Qty/ Rejected Qty (PO U/M)	Cost Per Unit/ Recv Value	Recv Qty (PO U/M)	Required Date Recv Required Oty Date/ Recv Emp	e/ PO U/M / ion/ Stock U/M	Project ID Reference/ Description/ Cert Std	Line Nbr/ Insp Req	Purchase Order ID/ Curr Type

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MF TBS	· S'ATMPba	Quantity	£075T #	5) Our Order PEC-380773- 5 Your PO ALUMINUM FLAT BAR 6061-T6511 .375" x 1.00" X 144.0000" Heat Number Tag No
087 87 727 SBT JM	S.BTM spa	YJiJnsuQ TAS 00.882 TAS 00.25 TAS 00.025	E0ZST #	4) Our Order PEC-380773- 4 Your PO STAINLESS STEEL SHEET 304-2B .0360 Nom X 48.0000" X 96.0000" S43
T87 MF IBS	PCS-BCS-BCS-BCS-BCS-BCS-BCS-BCS-BCS-BCS-B	YJİJABNQ TAS 00.261	# JS203	3) Our Order PEC-380773- 3 Your PO (5 STREL SHEET 304-2B
SBI S	PCS The spa	YJ LJnsuQ Tq 84	£ 12503	2) Our Order PEC-380773- 2 Your PO STAINLESS STEEL ROUND BAR 304L .375" DIA X 144.0000" Heat Number Tag No 9XY4 707
Teo MF-TB2	PCS 6	Ð VjijnsuQ Tq 801	N I O A . 50221	A STAINLESS STEEL ROUND BAR 303 STAINLE TO
	ifest Trailer (905-532-1350)	DALE SIOCLI VIM TRANSFE CONCORD O- 0 MAN TO: (2011 TO: (2011 TO: (2011	Ship Probi Via For Foute Vhcle Sold Sold	Ship From: THYSSENKRUPP MATERIALS UA 2821 LAUGSTAFF ROAD CONCORD, OUTARIO L4K 5C6 1270 ABERDBEN 1) DART AEROSPACE 1270 ABERDBEN ST HAWKESBURY, ON KGA 1K7 Tel: 612-632-9577 Fax: 613-632-1053 Tel: 612-632-9577 Fax: 613-632-1053
	NO: BEG 2		PNIUA	T 40 TTIE.

TVO/OST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

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T3 MF I'BS	PCS MTR'S.	YdidnauQ Tq 88	CORCT #	TTS NO LTS	DEC-380773- 10 PEC-380773- 10 PEC-380773- 10	10) Our Order ALUMINUM ROU 625" DIA X
TIT MF PBS	. S'ATN _E ba	YdidneuQ TA 42	# T2503 + T2503	ON psT SI7	T BAR 6061-T651 " X 144.0000" Heat Number 101114890	1.00.4 × 11.00.1
8 MF TBS	S'ATM gar	YJİJUBUQ TH SI		Your PO S11 S11 Tag No T17	WE BYK 6061-T6	TSO TWO (8 NUMIMULA SQUY X "027.
	PCS NATR'S	YdidneuQ " 0000.I'	₹079T	Your PO # 061-T6511 7ag No 710	201114797 BAR ECONOPLT 6 BAR ECONOPLT 6	7) Our Order ALUMIMUM FLT 500" X 10.00
LO LO	PCS MTR'9	YJÍJNEUQ TA PS	E0ZSI	Your PO # 12g No 709	BAR 6061-T651	TALT MUNIMULA "00.2 x "02.
9	/ T	TS ET C	И I И А	7 0 F L	HK067 787 B I L L	
	; ifest Trailer (905-532-1350)	II VIM TRANSFER CONCORD 0-0 Man: STAN IVERS	bLoz	======= 388033	Offf Egx, 2027	IATSĐNAJ IS8S TMO GRODMOD
	No: PEC 73		DING	I T O	BIPT	

DATE

Purchase Order ID PO15203

PO Print Date 10/19/11 Purchase Order Date 10/19/11

Fax: 613 632 1053 Tel: 613 632 9577 Hawkesbury, ON K6A 1K7 1270 Aberdeen Street Dart Aerospace Ltd.



Page Number 1 of 4

Vendor Fax EE06 8EL 506 **Уевдог Р**ьопе 702 699 64th Contact Name CV TORONTO, ON M5W 5V8 O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" THYSSENKRUPP MATERIALS CA LTD Order From: VC-COP001

HYMKESBURY, ON K6A 1K7 1570 ABERDEEN

Taxable Unit of Measure Red Date

CANADA

303 Round Bar 0.750

al gim

Description/

DART AEROSPACE LTD

800

Vendor Part Number

000

Le p

M304216GA

M304R0.375

M303K0.750

Line Nbr Reference

Vendor Account Nbr

: oT qid2

Mevision M

PER ASTM A582 WATERIAL: AISI 303 SS ROUND BAR AS Special Inst:

Yes

LOB

Terms

Buyer

Currency

Tax Resale Nbr

Requisition Nbr

11/17/01

00.84 NOTE: AISI 304/316 NOT ACCEPTABLE

χes 11/17/01

304 KONND BAR 0.375

504/316 Sheet .063

Special Inst: MATERIAL: AISI 304/316 SS ROUND

NOTE: 303 NOT ACCEPTABLE BAR AS PER ASTM A276

JS

Yours ppd

Yours ppd

Yours ppd

Ship Method

Destination-Collect

CVD

Net 30

10127-2607

Chantal Lavoie

00.80

Req Qty/

11/17/01 192.00

Xes.

Special Inst:

YZ BEK WIT-2-2029 OK YWZ 2213 (304) **VANNEALED 2B FINISH** MATERIAL: AISI 304/316 SS SHEET

YZWE 2Y740 OR AMS 5524 (316) OR ASTM A240 OR

No substitution or deviation without

2068.4\$

\$1.5200

0098.5\$

918511W

Unit Price

\$638.95

96.27\$

88.914\$

Price

Extended

heliling

Certification required when applicable Certificate of Conformity or Material

Change Date: 11/61/01

Change Nbr:

Purchase Order ID PO15203

PO Print Date 10/19/11 Purchase Order Date 10/19/11

Tel: 613 632 9577 Hawkesbury, ON K6A 1K7 1270 Aberdeen Street Dart Aerospace Ltd.



Change Nbr:

Fax: 613 632 1053

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Certification required when applicable Certificate of Conformity or Material

No substitution or deviation without

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		-QQ-A-225/8 OR QQ-A- AMS 4160	Q-A-225/8 OR AMS 1117/4128/4115/4116 AMS-QQ-A-200/8 O 1B211 OR ASTM BZ	AS PER Q OR AMS 4				
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		Chantal Lavoie	Buyer Beausition Mbr				tact Name	Con
				A."		P MATERIALS P. C/O T27540/ MSW 5V8	Y VPK METAI YONTO, ON	HT O\\
	<u> </u>			<u>.:</u>				
	Sumber 2 of 4	Page P						

Change Date: 10/19/11

Purchase Order ID PO15203

PO Print Date 10/19/11 Purchase Order Date 10/19/11

Fax: 613 632 1053 Tel: 613 632 9577 Hawkesbury, ON K6A 1K71270 Aberdeen Street Dart Aerospace Ltd.



Change Nbr:

Certification required when applicable Certificate of Conformity or Material

No substitution or deviation without

consent.

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		antal Lavoie	СР	Виуег		PO BOX 4275,POSTAI		RONTO, ON	O/P CA
i : : :					100P001	CA LTD	PP MATERIALS	KSSENKKO Letom:	HT
	Number 3 of 4	Lage		:					

Change Date: 10/19/11

Purchase Order ID PO15203

PO Print Date 10/19/11 Purchase Order Date 10/19/11

Fax: 613 632 1053 Tel: 613 632 9577 Hawkesbury, ON K6A 1K7 1270 Aberdeen Street Dart Aerospace Ltd.



Page Number 4 of 4

VC-COP001

TORONTO, ON MSW 5V8 O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" THYSSENKRUPP MATERIALS CA LTD Order From:

EE06 8EL 506

ttt6 699 S06

Vendor Phone Contact Name

CY

Vendor Fax

Vendor Account Nbr

Special Inst:

CVD Net 30

10127-2607

Chantal Lavoie

OR ASTM B211 OR ASTM B221 220/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR AMS 4117/4128/4115/4116 OR QQ-A-Y2 PER QQ-A-225/8 OR AMS-QQ-A-225/8 T6/T651/T6510/T6511/T62 ROUND BAR

MATERIAL: 6061-

EOB

Currency

Tax Resale Nbr

Requisition Nbr

Terms

Buyer

Destination-Collect

:faioT Oq

71.70E,E&

HEGIB RIBON DEFINEHA MATERIAL GERTIFICATION

Certification required when applicable Certificate of Conformity or Material No substitution or deviation without

Change Date: 10/19/11

Change Nbr:

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We centry that this is a true copy of the report furnished by the produces of the metal, or data resulting from tests made in approved labs.

PO/Rel 15203

THE VESTERNIER OF PROPERTY OF THE WAY

BL PEC 735256-001

NAS

STAINLESS STEEL ROUND BAR 305 STAINLESS 750" DIA X 144,0000" PART NO.

DART AEROSPACE

METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS 6870 HIGHWAY 42 FAST GHENT, KY 41045

6870 HIGHWAY 42 EAST Certificate: 677343

THYSSENKRUPP MATERIALS 1821 LANGSTAFF ROAD CONCORD, ON LAKEGE Mail

007206 001

Customer:

THYSSENKRUPP MATERIALS 2821 LANGSTAFF ROAD CONCORD, ON LAKSCS

Date: 10/12/2011

Page: 1

Steel: 303

Finish: CD

Your Order:

PEC232372

COMPLIES W/REQUIREMENTS OF DEARS EU DIRECTIVE 2002.95. Corrosion: REMARKS: NAS Order: PN 0015629 06

ASTH A582/05 EN 10204 3.1, ASTM A484/08 PRODUCT DESCRIPTION: AMS 5640U TIPE 1, QQS-764B CONDITION A Round Bar, Annealed, Cold Draw

EC. ROHS. EAF-ROD+CC. NO WELD REPAIR. MELTED AND MPG IN USA PREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

H H 144.00 1,136 .7500 Product Id BE0737 2

Mark Pieces Cosmodity Code

------Length----

Weight

Sixe

Skid # Diameter

ES(Spain) US(United States) ZA(South Africa) JP(Japan) CM(Country of Melt) ANALYSIS CHEMICAL

Pe	9760				
보	1				
a		.0356 8.5855			
Q.		.4045			
MOK		1.7880	į		
8		.2815 1.7880			
5		.1515 17.2245			
٤	3	,1515		SI	.4795
į	,	.0375		8	.3400
1	5	ΔS			
	HEAT	9336			

PROPERTIES MECHANICAL

MAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

Technical Dept. Mgr.

ERIC HESS

BL PEC-735256-003

We certify that this is a true cupy of the report. furnished by the producer of the metal, or data

PO/Rel 15203

THYSSENKRUPP MATERIALS NA

STAINLESS STEEL SHEET 304-2B .0600 Nom X 48.0000" X 96.0000" PART NO.

運鎢鋼鐵股份有限公司

TATA OTRICATOR I ACTUALISM 檢驗證明書

高雄市的金属中正四路 235 號 13F 13-F, No. 235, Jungjeng, 4th Road

		(KG)	/eight	52	1,214	1,250	1,250	1,106	1,242	1,216	cs		東京	Hardness HV			159.1
ıng, Taiwan.		净重(KG)	Net Weight	1,252	1,2	1,2	1,2	1,1	1,2	1,2	Mechanical Properties		逐	Hardness HRB	86.0	82.3	•
Chianjin Chiu, Kaohsíung, Taiwan.			ength								Mechan		作成形	Elong (%)	65.0	56.5	56.0
Chianjin		產品尺寸	Thickness x Width x Length	11GA x 48" x 96"	12GA x 48" x 56"	16GA x 48" x 96"	16GA x 48" x 96"	18GA x 48" x 96"	11GA×48"×96"	1GA x 48" x 120"	機械性質		经伏弹度	Y.S(0.2%) N/MM*	314	256	275
ICATE 1/08/08		超;	Thickness	11GA	12GA	1664	16GA	18GA	11GA	11GA	数		抗松強度	T.S NAMM ²	637	919	653
INSPECTION CERTIFICATE 列印日期(ISSUE DAIE): 2011/08/08		表面	Finish	213	213	213	2B	213	NO.4	VON.	6			··			
PECTIC			ode								(%) u			z	090.0	0.057	
INSI TENSI		強煙	Steel Grade	304	304	304	304	304	304	304	Chemical Composition	; !		Z	8.100 0.060	8.134	8.040
TD.	auga,	<u> </u>	.—-		0	-		0			mical C			ర	18.400	18.101	0.007 18.100
YUEN CHANG STAINLESS STEEL CO., LTD.	Global Stainless Steel Inc. 1150 Meyerside Drive Mississauga, Ontario Canada, I.5T 1J4	纖號	Heat No.	A2101089	A2762-1030	SC33727	SC33777	B9691-1020	A2101199	A2101199	Ű			S	0.007	0.006	0.007
S STEE	Global Stainless Steel Inc. 1150 Meyerside Drive Miss Ontario Canada, I.5T 1.14		. [Ā			B	_	-	\$			٦,	0.035	0.030	0.026
AINLES	al Stain Meyers trio Can	100	ď	0E20		A-1	A-2		N20-1	N20-2	化 學 成 金			Mn	1.200	191.1	1.010
ANG ST	Glob 1150 Onts	鋼捲緬號	Coil No.	KA10331950E20	H0710	QGP1320A-1	QGP1320A-2	H3590	KA10367270N20-1	KA10367270N20-2	*			:S	0.410	0.470	0.340
EN CH	客戶名稱 Customer			Į.					KA	Ϋ́	 	<u> </u> 		ບ 	0.050	0.043	0.052
Ϋ́С	徐己	項目	Item	-	. ~	~	4	5	9	-	平	-::	Itcm		-	2	<u>_</u> m

We hereby certify that the products described herein have been manufactured and tested with 0.040 0.370 1.060 0.040 0.002 18.100 8.000 0.030 茲證明本表所列產品,均依材料規格製造及試驗,並符合規格之要求。

Satisfactory results in accordance-with the requirement of the above material specification. 冷聚品的特別教。由其不免疾亡。

All the above products conform to the requirements specified in ASTM A240/A480.

The material described above is free irradiation and free mercuns

Shipment No. 4775 YUEN CHANG STEEL CO. L.

PO No.:82413 336 336

159.1

86.5 86.5

82.7

53.0 55.5 55.5

633 653

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0.040

9

0.044 0.052

ব

680

56.0

275 290

BL PEC-735256-004

We certify that this is a true cupy of the report. familiated by the producer of the metal, or data

PO/Rel 15203

THYSSENKRUPP MATHRIAMS NA

STADUESS STEEL SHEET 304-2B 03560 Nom X 48,0000" X 96,0000" PART NO.

DART AEROSPACE

ThyssenKrupp Mexinox A company of ThyssenKrupp Stanness

TEST REPORT (CERTIFICADO)

MEXINOX USA

CUSTOMER (CLIENTE)

NEW E

PACKAGE (EMPAQUE)
No. H6198410 00 REPORT (CERTIFICADO) CATE (FECHA) 9267 . 6 CUSTOMER PURCHASE ORDER CODE PART NUMBER MILL ORDER No. No. UE PEDIDO

AUG-09-10

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PRODUCT IDENTIFICATION

CONTING PIECES HEAT 17PE AND STATES DIMENSIONS IN PRESS WT. IN PERCENTION PIECES HEAT 17PE AND STATES DIMENSIONES IN PESC BRUTO Kg	ALC: USE	2	PESO METO MG	2.019	2 2	016	
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OTHER ELEMENTS (OTROS ELEMENTOS) CHEMICAL COMPOSITION
(XMPDSICION DUMICA (%)

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TEM TEST No			
TEM TEST No	HARDNESS DURF7A HRB	(HEAD / TAIL) 85.0 / 85.0	
TEM TEST No	ELDNSAIIDN %	54.5	
TEM TEST No D TENSILE S. No. MUESTRA R. TENSION A838630 99060 usi A938655 683 MPa 683 MPa C. C. C. C. C. C. C. C	YIELD S. R. FLUCNCIA	50038 psi 345 MPa	
1 TEM TEST No D No. No. MUESTRA A8386555 L A8386555 L	TENSILE S. R. TENSION	99060 usi 683 MPa	ICA
No. No. MUESTRA A838630 A838655	ာ		 AVX
No.	TEST No	838580 838555	 WPHART AND AND
	ITEM	-	

THIS MATERIAL CONFLISS WITH CHEMICAL COMPOSITION ACCORDING TO ASTM A 240/A 240M-090 STD, NOW, AND IT CONFLIES ALSO WITH THE MECHANICAL AND CHEMICAL PROPERTIES ESTABLISHED IN THE POLLOWING SIDS. : ASME SAZ40-07, QQ-S-766-D, MIL-S-5059-D, AMS 551AI,

THIS MATERIAL IS PREE OF MERCURY CONTAMINATION"



© We hereby destrify that in recognition of the terms and conditions set forth in the ET RONG Directive -2002/95/EC, we can insure that all of cur products and processes fully comply with it.

HECHO EN MEX CO / MADE IN MEXICO

PR:NTED: 8:54:27 SFP-16-10 ELABORATED BY Carlos Balderas Salazar

F. HAMATO NR. 39 - 427 - 42 fe-w. 7

BL PEC 735256-006

BRL 70

SERVICE CENTER METALS

CERTIFIED INSPECTION REPORT AND TEST RESULTS

We centry that this is a time copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

PO/Rel 15203

THYSSENKRUPP MATERIALS NA

UMINUM FLAT BAR 6061-76511 F.x. 5.00" X. 144.0000"

PART NO

DART AEROSPACE

FOR EXTRUDED PRODUCTS

Prince George, VA 23875 5850 Quality Way

135215 OUR ORDER NUMBER

ASTM-B221-08 StencilContinuous

CERTIFICATION

AMS-QQA-200/8

David Schroeder

9/16/2011

SPECIFICATION

DATE OF SHIPMENT SALESPERSON SCRB .500x5.000 6061-T6511 RB0101 ALLOY / TEMPER DESCRIPTION PEC-232914 CUSTOMER PART NUMBER RB0101 MANIFEST NUMBER CUSTOMER PO 24 pcs ThyssenKrupp Materials NA PEC 847 lbs ThyssenKrupp Materials NA Quantity Certified

Items produced and certified as 6061-T6511 also meet the requirements of 6061-76

revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

	Yield Strength Percent (KSI) Elongation	50.0	49.2
	Ultimate Tensile Strength (KSI)	53.8	52.8
	Test Date	09/15/11	09/15/11
Mechanical Properties	ot No.		201114312
Mechanic	Test No. Lot No.	1 - 20	20

Chemical Composition for Aluminum Alloy 6061 Cast Number Alloy Si Fe Cu 061913 6061 0.73 0.38 0.31 062911 6061 0.75 0.38 0.31 070112 6061 0.73 0.38 0.31		Mn Mg Cr Zn Ti Melted In United States of America	0.10 0.87 0.08 0.04 0.02 0.11 0.89 0.08 0.08 0.02 0.11 0.89 0.08 0.08 0.02
cal Composition for Aluminu imber Allox Si 6061 0.73 6061 0.76 6061 0.73	y 6061	리	0.31 0.30 0.31
Chemical Composition for Aluminu Cast Number Alloy Si 061913 6061 0.73 070112 6061 0.76	m Allo,		0.38 0.38 0.38
Chemical Composition for Cast Number 061913 6061 062911 6061 070112 6061	r Aluminu	ଊୗ	0.73 0.76 0.73
Chemical Coloast Number 061913 062911 070112	mposition fc	Allox	6061 6061 6061
	Chemical Cor	Cast Number	061913 062911 070112

Dec'No. 118464 Indexed 22Sep11 by sissup1 Rev. 9/06/07 - UMS

Print Date: 9/16/2011

Calvin J. Widgins. Director of Quality & Technical Services.

BL PEC 735256-008

We centry that this is a true copy of the report furnished by the producer of the racelal, of data resolving from tests made in approved labs.

PO/Rel 15203

SERVICE CENTER METALS M SQUARE BAR 6061-T6511 44,0000

Prince George, VA 23875

5850 Quality Way

HEVSSENKRUPP MATERIALS NA

DART AEROSPACE

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

131567 OUR ORDER NUMBER CERTIFICATION DATE OF SHIPMENT DIE NUMBER MANNEST NUMBER

ASTM-B221-08 StencilContinuous AMS-QQA-200/8 SPECIFICATION David Schroeder 7/15/2011 . 6061-T6511 SQ0039 ALLOY / TEMPER DESCRIPTION SCSB .750 PEC-231378 CUSTOMER PART NUMBER SQ0039 CUSTOMER FO 160 pcs 1,269 lbs ThyssenKrupp Materials NA PEC

ThyssenKrupp Materials NA

SHIP TO

BILL 70

Quantity Certified

revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the meet the requirements of 6061-76 description, and that samples representative of the material met the composition limits and had the mechanical properties shown. We hereby certhy that the material covered by this report has been inspected in accordance with the most recent certification SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Cenada.

Items produced and certified as 6051-T6511 also

Mecha	Mechanical Properties				
Test No.	Test No. Lot No.	Test Date	Ukimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
•	10.01110805	07/14/11	55.0	51.8	16.7
5,	201110805	07/14/11	55.3	52.1	16.0
ო	201110805	07/14/11	54.2	50.8	17.5
4	201110805	:	54.6	51.3	16.0
: •	201110805	07/14/11	56.4	53.4	16.5
Ф	,	07/14/11	54.2	50.8	16.4
7	!	07/14/11	55.5	52.3	16.5
60	201110805	07/14/11	55.5	52.5	14.4
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Print Date: 7/15/2011

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07/14/11 07/14/11

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201110805

Rev. 9/06/07 - UMS

Doc No. 114788 Indexed 21Jul11 by slssup1

ALIMINIO SOCARE HAR 6061 76511 750" X 144 0000 PART NO.

DART AEROSPACE

SERVICE CENTER METALS 5850 Quality Way Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

131567 DUR CROER NUMBER

ThyssenKrupp Materials NA PEC PEC-231378 6061-T6511 David Schroeder AMS-QQA-200/8 Quantity Certified 1,269 lbs 160pcs Customer Part Number Besomeration and has been found to meet the applicable requirements described herein, including any specification and that samples percent of 6061-76	SAMP TO	:	DIE NUMBER DATE (DATE OF SHIPMENT 7/15/2011	ASTM-B221-08 StencilContinuous
t recent certification elions forming a part of the	ThyssenKrupp Materials NA PEC Quantity Certified	USTONI	R 344.8	David Schroeder	SPECHICATION AMS-QQA-200/8
t recent certification stions forming a part of the	We hereby certify that the	160pcs SQ0039	SCSB.750		
	revision, and has been found to meet the a description, and that samples representations	d by this report has been inspected policable requirements described h	In accordance with the most re erein, including any specification	cent certification ns forming a part of the	Items produced and certified as 6061-165 meet the requirements of 6061-T6

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Items produced and certified as 6061-16511 also meet the requirements of 6061-16	
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Chemical Composition for Aluminum Alloy 6061

0.10 0.34 리 0.39 <u>[6</u> 0.76 Ö 6061 6061 Cast Number)20315)52917

United States of America Metted In

Calvin J. Winnins. Director of Quality & Technical Services

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Doc No. 114788 Indexed 21Juil1 by slssupl

V. 9/06/C7 - UMS

PO/Rel 15203 HIVSSENKRUPP MATTERIALS NA STAINLESS STEEL ROUND BAR 3041. 375" DIA X 144 0060" PART NO. DART AEROSPACE

We certify that this is a true coay of the report furnished by the producer of the rateful, or data resulting from tests made in approved labs.

BL PEC-735256-002

210ct11 Pg 1/1

Certificate of Mill Test Results

NAS

METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS 6870 HIGHWAY 42 EAST GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 677344

Customer: 007206 001

THYSSENGRUPP MATERIALS 2821 LAWGSTAFF ROAD CONCORD, ON LAKSC6 Mail To:

THISSENKRUPP MATERIALS 2921 LANGSTAPP ROAD CONCORD, ON LAKECG

Date: 10/12/2011 Steel: 304/304L

Page

Finish: CD

MAS Order: PN 0015430 02

Corrosion: ASTM A262 Prac A/E OK

PEC232371 Your Order:

DESCRIPTION: Round Bar, Annealed, Cold Draw PRODUCT

ASTH A276/10, ASTH A479/10a, ASTH A182/10 CHEM ONLY, ans 5639H, ans 5647H, ans 008-763B, 008-763F UNIS 30400/30403 EM 10204 3.1, ASTM A484/08 ASME SA479/10a, ASME SA182/10 CHEM ONLY

COMPLIES W/REQUIREMENTS OF DEARS ED DIRECTIVE 2002.95. REMARKS:

EC. Rohs. Earthodecc. No weld repair. Melted and MFG in USA

FREE FROM MERCURY AND LOW MELITING ALLOY CONTAMINATION

Mark Pieces Commodity Code 4 2 144.00 ------Length----916 Weight Size .3750 Skid # Diameter Product Id BE0923 4

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) ANALYSIS CHEMICAL

HEAT	5	D	ខ	క	8		Q#C	M	MI	A
9XX4	ΩS	.0171	.1995	18.0795	.3935	.3935 1.3650	.3420	. 0653	.0653 8.5185	.0315
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	i	20	SI							
		.0290	.2865						ŀ	

PROPERTIES MECHANICAL

	Product Id	4 4 W	HB No.	.2YS KSI	ots Isa	2 *	Elng % 4D	
	BE0923 4	H H	144.00	83.84	44.00 83.84 103.75 72.67 56.50	73.67	56.50	•
-								

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

Technical Dept. Mgr.

RRIC HESS

A CORPORATE OF THE PARTY OF THE

Doc No. 119874 Indexed 14Oct11 by slssup1

FO/Rd 15203 HEARSBURGER WALERING OF

BF BBC 132529 004

1/1 34

We centry that this is a true copy of the report çiştreği par

AVKI MO 0360 Nom X 48,0000" X 96,0000" 21 AUGUSS STIME SHIELT 304.2D DVKI VEKOSBVCE

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furnished by the producer of the metal, or data resulting from lests made in approved labs.

MLB#: AMCFETOM328-5-5'@ This MTR contains 1 page (Page# 1)

TA CHEN INTERNATIONAL, INC.

MILL TEST REPORT

TE0922UY: #Js9H E-A8878+2E6:9Ibring 8C+0E9684AƏ0S:məti Customer: COPCON PO#:PEC-223487 50#:PG9657

INSPECTION CERTIFICATE

CERTIFICATE NOSTOMS58-2-2 KACHERANG HSIEN TAIWAN R.O.C. 349' SHI'M WEBD' FRI CHI'I REIMMO 工廠:黃雄族每付鄉職受收84四號

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CUSTOKER : SPECIFICATION:

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AUTH WALL CORP

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DEPTH OF YEAR AND PHYSICAL PROPERTIES COMP. Y TO AMS 6513H

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6 Otter Berneri ; ASTM E 1066, 90 ST PROTE WITH A CLOSE MINE E

> BEEN ONDE IN VICEORDANCE WITH THE ROLLS OF THE MILL GEREFFOATE. ME HEBERA CERTIFY THE WATERIAL DESCRIBED PEREN PAS NO MERCHRY CONTAMANATION

> > 11782

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LHASSENICECIES MYLEGIVES NY

BT BEC 13250 002

7/T 3/I

310017

Signed by:

PO/Red ES203.
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from less made in approved labs.

PART AEROSPACE

325' x 100' x 140 0000'
DART AEROSPACE

CERTIFIED TEST REPORT

moo.munimulArasisA.stasoll:qttd

MARTINE



KAISER ALUMINUM 5205 KAISER DRIVE FABRICATED PRODUCTS, LLC KALAMAZOO, MI 49048

·		. ROAD	SOLD TO:		,	QA05	SHIPTO: CONCORD, ON LAI THYSSENKRUPP IN
TH 000	12.			08810	e sc	96.000 PC	508,000 LB
:HT6	rend	:HTOIW	DIYWDYEVLHKUS:	N NOMBER:	8	:ОПРИМИТЕТУ:	WEIGHT SHIPPED:
11	:91	1909	HK067 787	1102/60/6	0	₩00	602845
:H30	MaT	VILOY:	КАІЗЕК ГОТ ИЙМВЕК:	:3TAQ 9IH	8	LINE ITEM:	KAISER ORDER NUMBER:
		ECT BAR	375 X 1.000 SC RI	80	ALREC002		PEC-232745-4
		<u>:</u>	PRODUCT DESCRIPTION	:язамии тя	CUSTOMER PA		спатомея РО ИЈМВЕК:
						0+06	HIM 'COZVANUTIVA

Actual Physical Properties

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		inder	Rema	_เ นทน <u>เ</u> นท	A ,(%}w) noif	Composi	Shemical)	
		• •	. –						
A/N	A/V	L6	BE	8.81	42.5	3.74	COIS	τ000	887000ATX
A\N	Α\N	L6	ਸ਼ਬ	P 8T	43.2	L°8ን	1100	1000	887000ATX
A/N	Α\N	LE	KE	5.61	₽.£₽	9°L7	0070	T000	887000ATX
A/N	$A \setminus N$	L6	38	8.81	ዾ • ፇ፟፟፟፟	8*85	6000	000J	887000ATX
A/N	A\N	<u> </u>	BE	7.et	Z.24	€.81	8000	T000	887000ATX
A\N	Α\N	96	38	₱ 6T	4.04	J.91	۷000	COOI	887000ATX
A\N	A\N	96	ВE	2.02	Z.E.A	0.84	9000	COOT	X2E000788
A\N	W/N	76	. 3 X	18.0	9°T7	7.24	9000	COOT	887000ATX
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A\N A\N	A\V	76	EA	8 ° 8 T	9.15	6.24	6000	1000	887000ATX
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BEND	DUCT.	MESS COM	HARD	EFONC#	le (Kei)	e(Kei) x	TU #3.19MA	DASH# S	REFERENCE

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CERTIFICATION

Kaiser Alumirum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and in conformence with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Bny warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Plant Serial: 00006651

Kaiser Order Mumber: 602845

Line Item: 004

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Quality & Technology Manager

HASSBAKKANKANKAKANSAN

BC 18C 132526 005

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resulting from tests made in approved Jabs. We cently that this is a rule copy of the report

DART AEROSPACE

CERTIFIED TEST REPORT

http://certs.KaiserAluminum.com

FABRICATED PRODUCTS

KALAMAZOO, MI 49048 **2209 KAISER DRIVE**

KAISER ALUMINUM

FABRICATED PRODUCTS, LLC

Applicable Requirements:

conforms to T6-not applicable to other tempers) VALW-BSSI-08-SLENCIPED VANE-SBSSI 1888 SECT II AMS-00-A-200/8 UNG#860061 (16511 also

Miscellaneous Notes

MANUFACTURES IN USA (COMMERCE, CA) MELTED IN USA

CERTIFICATION

Raiser Aluminum Febricated Products, LLC hereby certifies that metal shipped under this order has been inspected and fested in conformance with applicable specifications forming a part of the description set forth in Kaiser's asles acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on fills, subject to examination.

Plant Serial: 00006651

Kaiser Order Number: 602845

Line Item: 004

Page 2 of 2



Alex Yeh, Quality & Technology Managor

THYSSENKRUPP MATERIALS NA

LUMINUM FLAT BAR 6061-T6511 00" x 4:00" X 144:0000" ART NO DART AEROSPACE

PO/Rel 15203

We certify that this is a true capy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results BL PEC 735256-009

210ct11 Pg 1/1

SERVICE CENTER METALS 5850 Quality Way Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

TEN	
OUR ORDER NUMBER	135334

IT CERTIFICATION	/2011 ASTM-B221-08 StencilContinuous	NOS	chroeder AMS-DOA-200/8	
DATE OF SHIPMENT	9/29/2011	SALESPER	6061-T6511 David Schroeder	×4 000
DENUMBER	RB0128	ALLOY / TEMPER		ESCRIPTION
MANIFEST MUMBER	141232	CUSTOMER PO	PEC-232958	CUSTOMER PART MUMBER D
				39 pcs
	ials NA		ials NA PEC	2,202 lbs
OL THE	ThyssenKrupp Materials NA	SHIPTO	ThyssenKrupp Materials NA PEC	Quantity Certified 2,202 lbs

Items produced and certified as 6061-76511 also

rovision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the meet the requirements of 6061-16 description, and that samples representative of the material met the composition limits and tha mechanical properties shown. We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Mecha	Aechanical Properties				
Test No.	Test No. Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
	201114341	09/20/11	47.7	44.3	16.1
8	201114341	09/20/11	49.0	45.9	15.0
			-		

Chemical Compos	nposition fo	ition for Aluminum Alloy 6061	um All	oy 606°							
Cast Number	Allox	ଯା	꾑	례	M	Mg	ଧ	Zu	FI	Others Each I	rs <u>Total</u>
0911086	6061	0.76	0.36	0.30	0.10	0.86	0.10	0.08	0.02	0.05 max (.15 max
0911087	6061	0.74	0.35	0.31	0.12	98.0	0.10	0.07	0.02	0.05 max 0	.15 max
C07H0652	6061	0.72	0.26	0.33	0.09	06.0	0.09	0.01	0.01	0.05 max 0	0.15 max
C29J1007	6061	0.75	0.37	0.32	0.1	0.89	0.10	0.01	0.01	0.05 max 0	.15 max

United States of America

Mefted In

14.3

47.9

51.3

09/23/11

201114690

Print Date: 9/29/2011

Calvin J. Wiggins. Director of Quality & Technical Services

Doc No. 118951 Indexed 4Oct11 by sissup1

HYSSENKRUPP MATERIALS NA

ALUMBUM HI BAR ECONOPIT 6061 T6511 500 X 10.00" X 144.5000" DART AEROSPACE

We certify that this is a true copy of the report. furnished by the producer of the metal, or data resulting from tests made in approved labs PO/Rel 15203

Certificate of Mill Test Results BL PEC 735256-007

210ct11 Pg 1/1

SERVICE CENTER METALS 5850 Quality Way Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER

				135938	
Q1 7789	WANTEST NUMBER	. DIE NUMBER	DATE OF SHIPMENT	сектинсалом	'
ThyssenKrupp Materials NA	_	PL0734	9/30/2011	ASTM-B221-08 StencilContinuous	
OT 9118	CUSTOMER PO	ALLOY / TEMPER	SALESPERSON		
ThyssenKrupp Materials NA PEC	PEC-233244	6061-T6511	David Schroeder	AMS-004-200/8	
Ousofity Cortified 1 010 lbs	27 P.O.S. CUSTOMER PART NUMBER	DESCRIPTION			:
Science Common 1,212 in	2. PCS PL0734 X 144.5	PL .500 x 10.00			

Items produced and certified as 6061-T6511 also revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the meet the requirements of 6061-T6 description, and that samples representative of the material met the composition limits and had the mechanical properties shown. We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Mechanical Properties	1 1 2 1	÷				:
Test No. Lot No.			Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1 201114797	:		09/27/11	4	6.2	14.0

y 6061	
읔	ı
Vuminum A	
₹.	١
Chemical Composition for Aluminum Alloy 6061	
Chemica	

	<u>Melted In</u> United States of America	
Others	Each Total	0.05 max 0.15 max
i	=	0.01
ŕ	5	0.01
ć	ול	0.09
	D)	0.89
3	S	60.0
ć	3	0.35
Ĺ	<u> </u>	0.29
č	<u></u>	0.72
.	AllOY	6061
14 4	Cast Number	C07H0639

Print Date: 9/30/2011

Doc'No. 118883 Indexed 40ctl1 by slssup1

BL PEC 735256-010

ALUMINUM ROUND BAR 6061-T6511. 625" DIA X 144.0000" PART NG.

We centry that this is a time copy of the report farmished by the producer of the metal, or data resulting from tests made in approved labs.

PO/Rel 15203

SERVICE CENTER METALS

Prince George, VA 23875 5850 Quality Way

ODUCTS	
UDED PRO	
FOR EXTR	

CERTIFIED INSPECTION REPORT AND TEST RESULTS

9 130370 OUR ORDER NUMBER CERTIFICATION

SPECIFICATION

ASTM-B221-08 No Stencil

DATE OF SHIPMENT 6/29/2011

DAE NUMBER

SALESPERSON

6061-T6511 RD0002 ALLOY/ TEMPER DESCRIPTION

VIM-610896

CUSTOMER PO

134675

MANIFEST NUMBER

CUSTOMER PART NUMBER

ThyssenKrupp Materials NA VIM

ThyssenKrupp Materials NA

SHEP 10

B/L.L TO

AMS-QQA-200/8 David Schroeder

Items produced and certified as 6061-T6511 also revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. We hereby certify that the material covered by this report has been inspected in accordance with the most racent certification SCM extrusions are manufactured in the USA from ingot metted and cast in the United States or Canada. ROD .625 +/-.005 RD0002 395pcs 1,712 lbs Quantity Certified

meet the requirements of 6061-76

Test Date Ultimate Tensil	Mechanical Properties Test No. Lot No.
---------------------------	--

100	ecilalitai i jopei aco	1				1	Vivia Ctronath	Percent
st No.	st No. Lot No.				Test Date	Ultimate Tensile Strength (KSI)	(KSI)	Elongation
•					06/28/11	50,0	47.1	19.4
; c	201110397	UF C	į		06/28/11	49.4	46.3	20.2
;	201110397	アプリー	:	.	06/28/11	49.8	46.8	19.2
,	201110397			1	06/28/11	47.5	44.2	20.6
4 r	201110397		i	:	06/28/11	48.9	45.8	19.2
0 (20111039/				06/28/11	48.6	45.4	19.5
י ז סצ	201110397		İ	 	06/28/11	51.8	49.0	17.5
<u>.</u> .	20111039/		:		06/28/11	50.0	47.2	18.1
ν · α	20111039/	***************************************	:	:	06/28/11	50.1	47.1	18.8
מכ	201110397			:		49.4	46.6	18.4
9	201110397			!	OUESC.			. :

Alloy 6061	
r Aluminum	
Chamical Composition for Aluminum Alloy 6061	
Chomical	

ij	0.05
<u>Z</u> n	25.0
히	0.08
Σ	0.87
M	0.10
리	0.31
E	0.39
ଊା	0.71
Alloy	6061
Cast Number	061213
	ب ا

United States of America

Melted In

Print Date: 6/29/2011

Calvin J. Wiggins, Director of Quality & Technical Services

Doc No. 113675 Indexed 5Jul11 by vslssup2